

Aero Design Ltd.**Work Order Control Sheet**Work Order#: 2017-163Date Opened: 02 October 2017Title: FabricationAircraft OEM: BellAircraft Model: 407Product Type: Cargo BasketProduct Model: High SkiQuantity: 7**Work Order Contents**

Work Order/Build Sheets (Procedures Provided)
Additional Work Sheets (Standard Practice)
Drawings (See List Below)
Parts Distribution Sheet
Sub Component Tags
Completed Certification
Time Sheet (R&D)
Notes

Initial or N/A

JC
N/A
JC
JC
CB/JC
CB/JC
N/A
N/A

Build Sheet Contents

Tasks Initialled
Dual Inspections Initialled

Initial or N/A

CB/JC
CB/JC

Drawing List

Drawing #	Rev #	Description	Initial or N/A
76611	1	Basket Body	JC
76612	0	Lid	JC
76623	1	Hoop	JC
76624	0	Forward Mount Hoop	JC
76625	0	Aft Mount Hoop	JC
84262	2	Basket Handle Prov.	JC
84263	0	Lid Handle Provisions	JC
70405	4	Lid Walkway	JC

Component Completion

Quantity Complete on This Work Order
Quantity Incomplete on This Work Order
Further Processing Required Before Release
Release to Stock as Components

As Instructed

7
N/A
N/A
N/A

Certification

Form One Completed
Serviceable (Green) Tag Completed
In Process (Yellow) Tag Completed
Unserviceable (Red) Tag Completed
Parts Placed in Stores for Distribution

Initial or N/A

N/A
N/A
DM
N/A
N/A

Additional Documentation

Documentation of a minor change
Non-Conformance Report Required
Service Difficulty Report Required

Initial or N/A

N/A
N/A
N/A

Billing

Local (Aero Design)
Research and Development
Third Party

Initial or N/A

JC
N/A
N/A

Work performed by:

Print: Jason Rekve

ICC / Dual Inspection performed by:

Print: Jeff Clarke

Work Order closed by:

Print: Jeff Clarke

Approved Manufacturing Facility 73-04

Sign:

Sign:

Sign:

Form 20.D.03

SCA: AD 01

SCA: AD 02

SCA: AD 02

Date: 2-Oct-17Date: 29-Nov-17Date: 8-Dec-17

Rev. Original 23 Sep 2014



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: LID CROSS MEMBER (3/4x035) No. of pieces: 21

Manufacturer: AERO DESIGN LTD

Part No.: N/A Serial/Batch No.: PO 17055

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: 2017-163

Remaining Tasks to be Performed: NONE

Signature: Jff Cel.

Date: 31 OCT 2017 Lic. No. / SCA AD02



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: LID END (3/4 x 0.035 4130) No. of pieces: 14

Manufacturer: AERO DESIGN LTD.

Part No.: N/A Serial/Batch No.: P017055

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: 2017-163

Remaining Tasks to be Performed: NONE

Signature: [Signature]

Date: 15 OCT 31 OCT 2017 Lic. No. / SCA AD02

Serviceable



Aero Design Ltd.

9888 A Malaspina Rd. Powell River, BC, V8A 0G3

Phone: 604-483-2376 Fax: 604-483-2372 E-mail: info@aerodesign.ca

AMF 73-04

Nomenclature: 40 CROSS MEMBER No. of pieces: 30

Manufacturer: AERO DESIGN LTD

Part No.: N/A - 3/4 x 0.035 4130 T2 Serial/Batch No.: 17055

TTSN: N/A TSO: N/A Rem.: N/A

Work Order No.: 2017-153

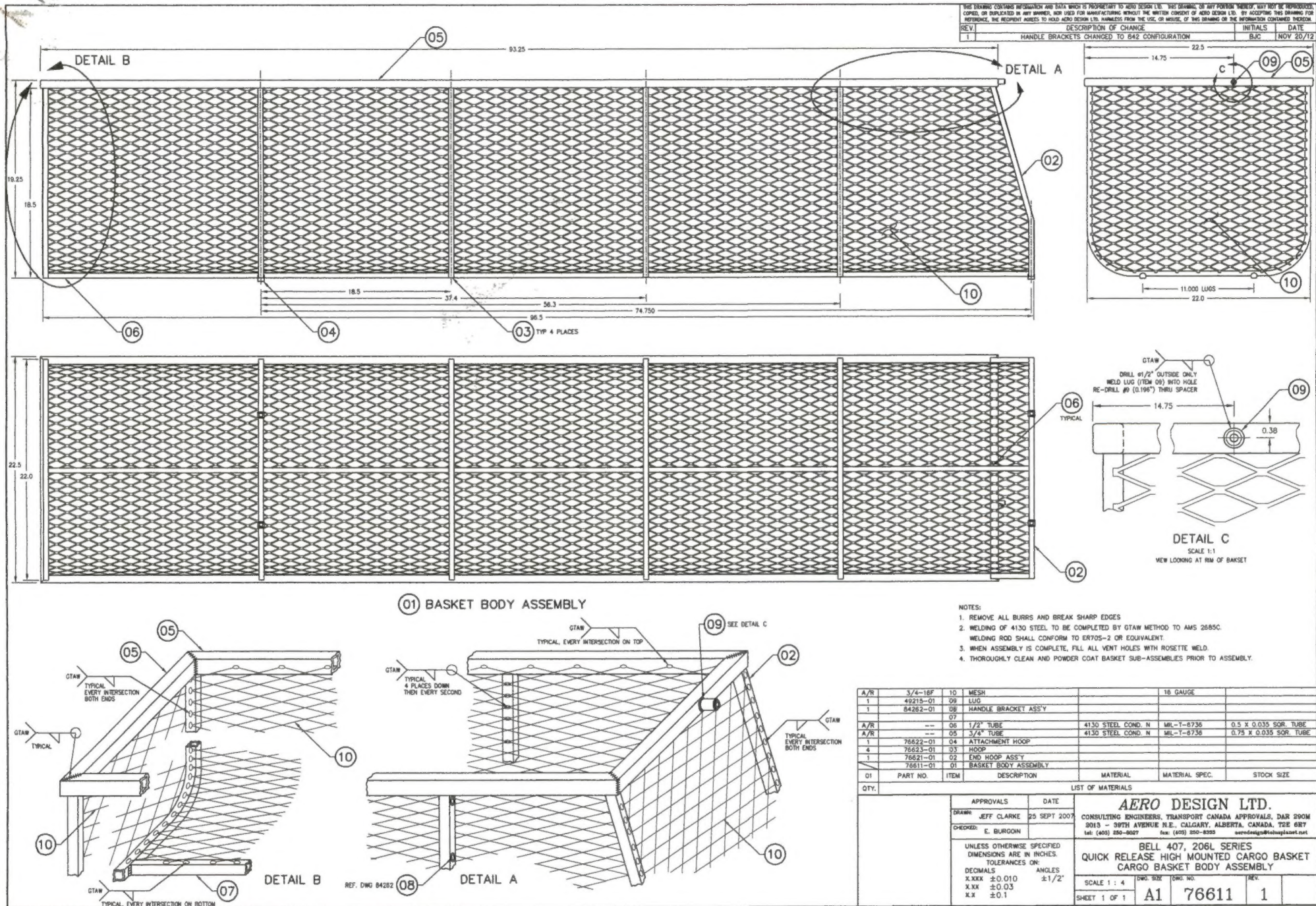
Remaining Tasks to be Performed: NONE

Signature: JH CRL.

Date: 20 SEPT 2017 Lic. No. / SCA AD02

Serviceable

2017-163

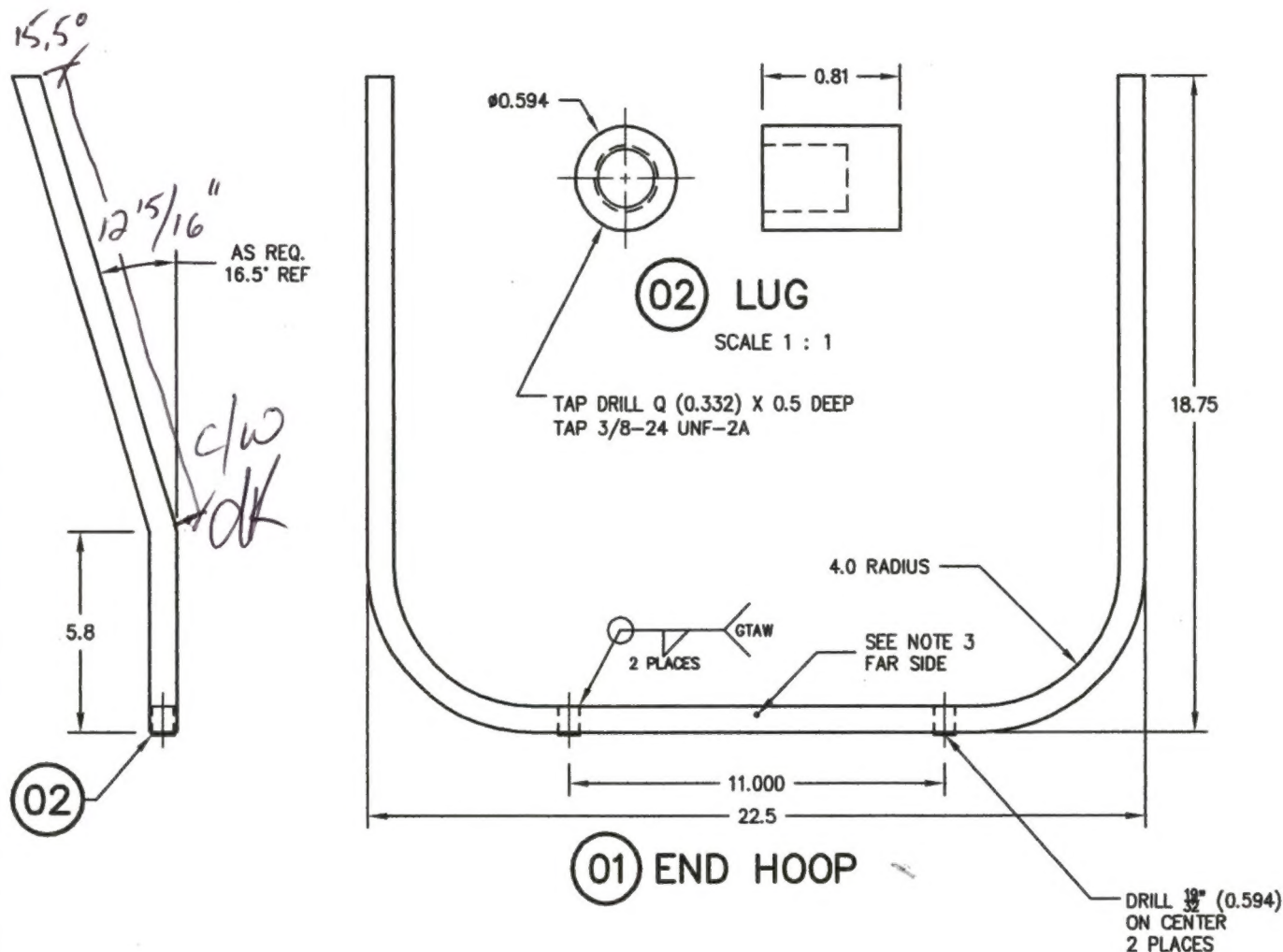


REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE - CREATED FROM 76621, REV. 0		

2017-163

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. WELDING OF 4130 STEEL TO BE COMPLETED BY GTAW METHOD TO AMS 2685C.
4130 AND 1018 STEEL: WELDING ROD SHALL CONFORM TO ER70S-2 OR EQUIVALENT.
3. DRILL #30 VENT HOLE IN BOTTOM OF HOOP FOR VENTING WELD GASES.



2	76624-02	02	LUG	1018 CARBON STEEL	ASTM A108	Ø5/8" ROD
	76624-01	01	END HOOP	4130 STEEL COND. N	MIL-T-6736	3/4" SQR x 0.065 WALL
QTY	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE

LIST OF MATERIALS

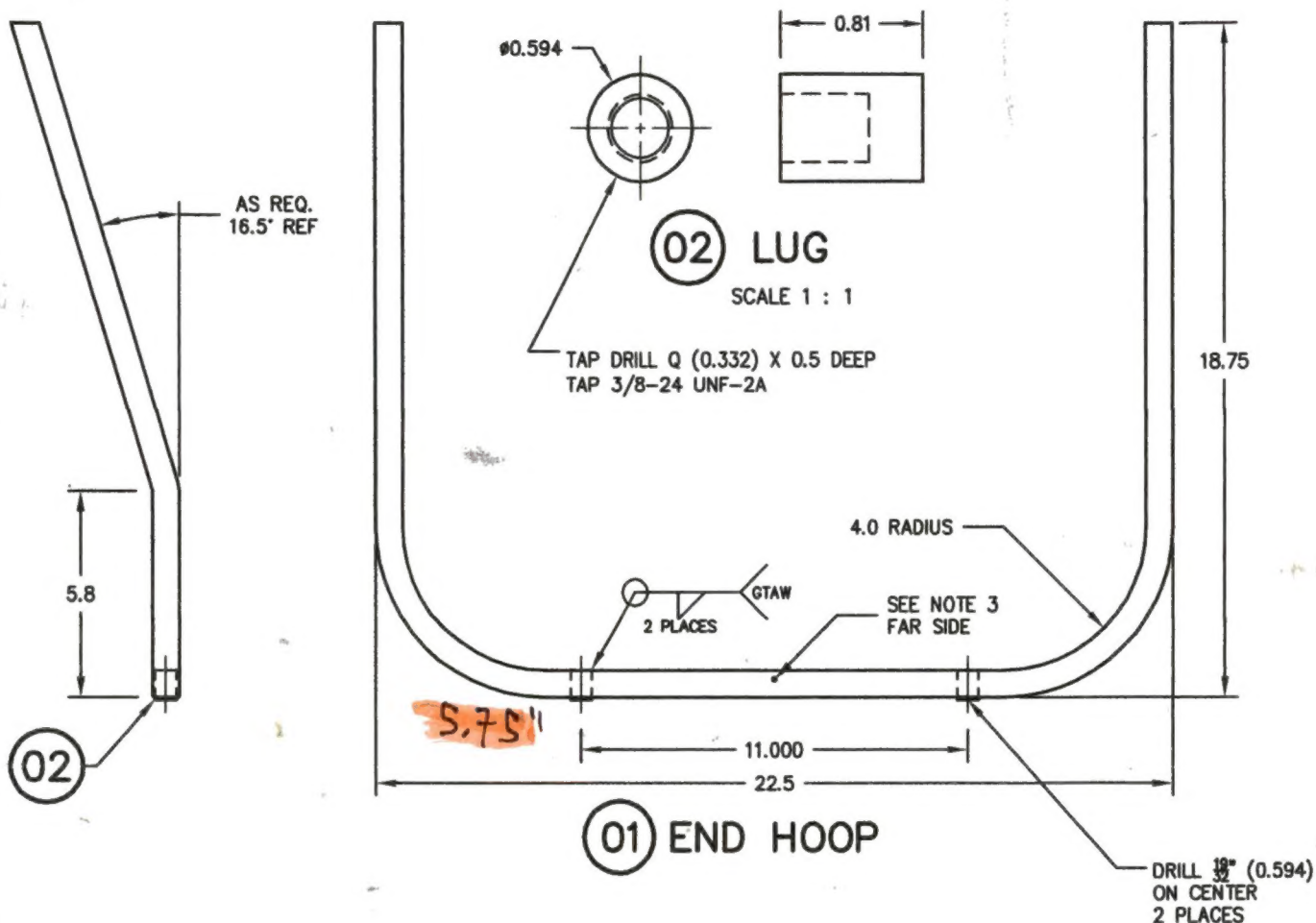
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	CHECKED: JASON REKVE		25 JUNE 2017			POWELL RIVER, BC, CANADA, V8A 0G3							
					TEL: 604.483.2376								
					www.aerodesign.ca								
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:		BELL 407 AND 206L SERIES QUICK RELEASE HIGH MOUNTED CARGO BASKET BASKET COMPONENTS – END HOOP									
		DECIMALS		ANGLES		SCALE 1 : 5		DWG. SIZE		DWG. NO.		REV.	
		X.XXX ±0.010		±1/2"		SHEET 1 OF 1		A4		76624		0	
		X.XX ±0.03											
		X.X ±0.1											

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE - CREATED FROM 76621, REV. 0		

2017-163

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. WELDING OF 4130 STEEL TO BE COMPLETED BY GTAW METHOD TO AMS 2685C.
4130 AND 1018 STEEL: WELDING ROD SHALL CONFORM TO ER70S-2 OR EQUIVALENT.
3. DRILL #30 VENT HOLE IN BOTTOM OF HOOP FOR VENTING WELD GASES.



2	76624-02	02	LUG	1018 CARBON STEEL	ASTM A108	Ø5/8" ROD
	76624-01	01	END HOOP	4130 STEEL COND. N	MIL-T-6736	3/4" SQR x 0.065 WALL
QTY	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE

LIST OF MATERIALS

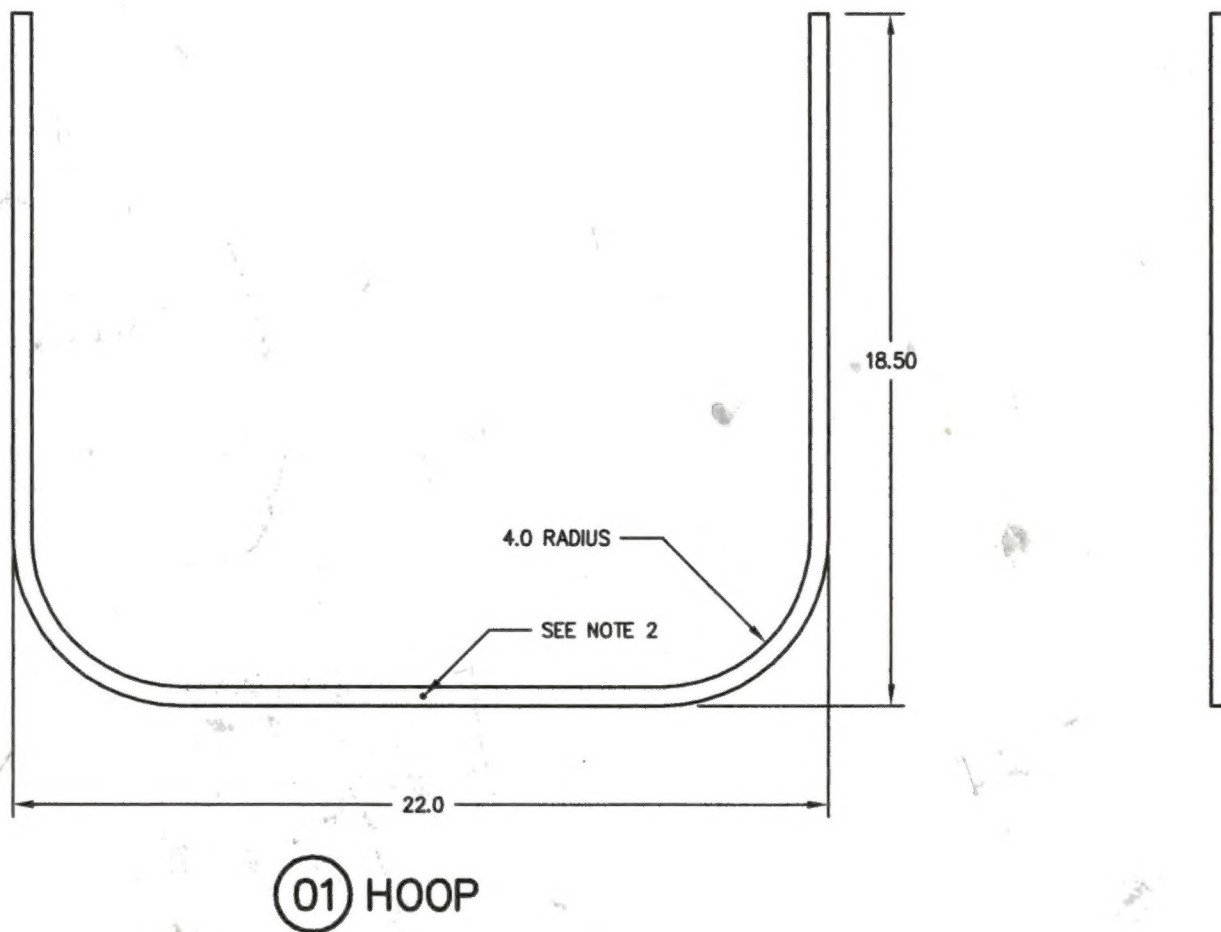
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	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX ±0.010 ±1/2" X.XX ±0.03 X.X ±0.1		BELL 407 AND 206L SERIES QUICK RELEASE HIGH MOUNTED CARGO BASKET BASKET COMPONENTS - END HOOP		SCALE 1 : 5 DWG. SIZE A4 DWG. NO. 76624 REV. 0	
	SHEET 1 OF 1		SCALE 1 : 5		DWG. NO. 76624	
	SHEET 1 OF 1		SCALE 1 : 5		DWG. NO. 76624	

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	TITLE BLOCK UPDATED; REFORMATTED TO A4; VENT HOLE SIZE CHANGED	BJC	29/09/2016

2017-163

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. DRILL #30 VENT HOLE IN BOTTOM OF HOOP FOR VENTING WELD GASES.



	76623-01	01	END HOOP	4130 STEEL COND. N	MIL-T-6736	1/2" SQR x 0.035 WALL
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
QTY	LIST OF MATERIALS					

LIST OF MATERIALS

APPROVALS

DATE

DRAWN:

JEFF CLARKE

26 SEPT 2007

CHECKED:

E. BURGAIN

27 SEPT 2007

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ON:

DECIMALS

ANGLES

X.XXX ±0.010

±1/2°

X.XX ±0.03

X.X ±0.1

AERO DESIGN LTD.

9888A MALASPINA ROAD

POWELL RIVER, BC, CANADA, V8A 0G3

TEL: 604.483.2376

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BELL 407 AND 206L SERIES

QUICK RELEASE HIGH MOUNTED CARGO BASKET

BASKET COMPONENTS – HOOP

SCALE 1 : 5

SHEET 1 OF 1

DWG. SIZE

A1

DWG. NO.

76623

REV.

1

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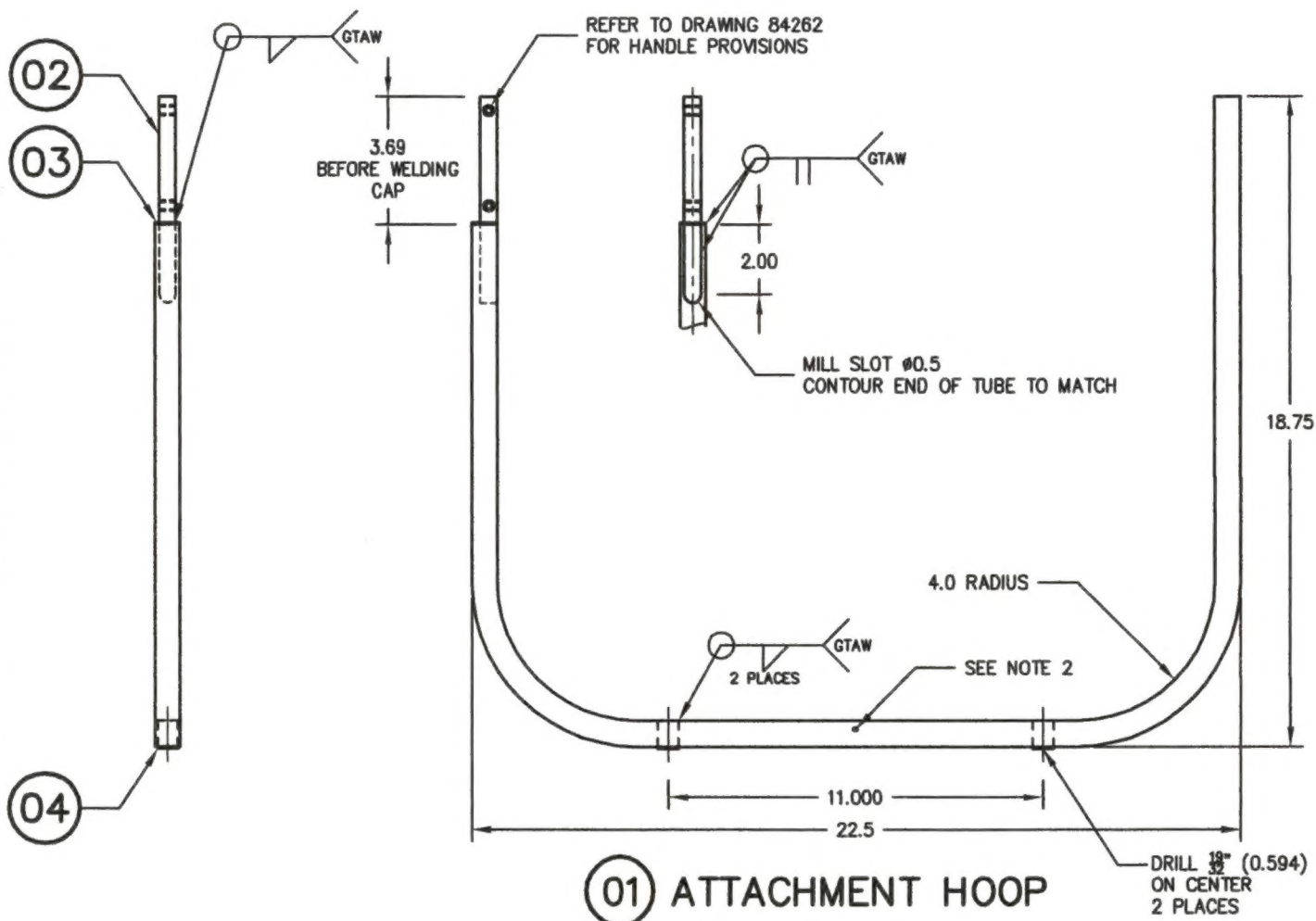
NOTICE

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE - CREATED FROM 76622 REV. 0		

2017-163

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. WELDING OF 4130 STEEL TO BE COMPLETED BY GTAW METHOD TO AMS 2685C.
4130 AND 1018 STEEL: WELDING ROD SHALL CONFORM TO ER70S-2 OR EQUIVALENT.
3. DRILL #30 VENT HOLE IN BOTTOM OF HOOP FOR VENTING WELD GASES.



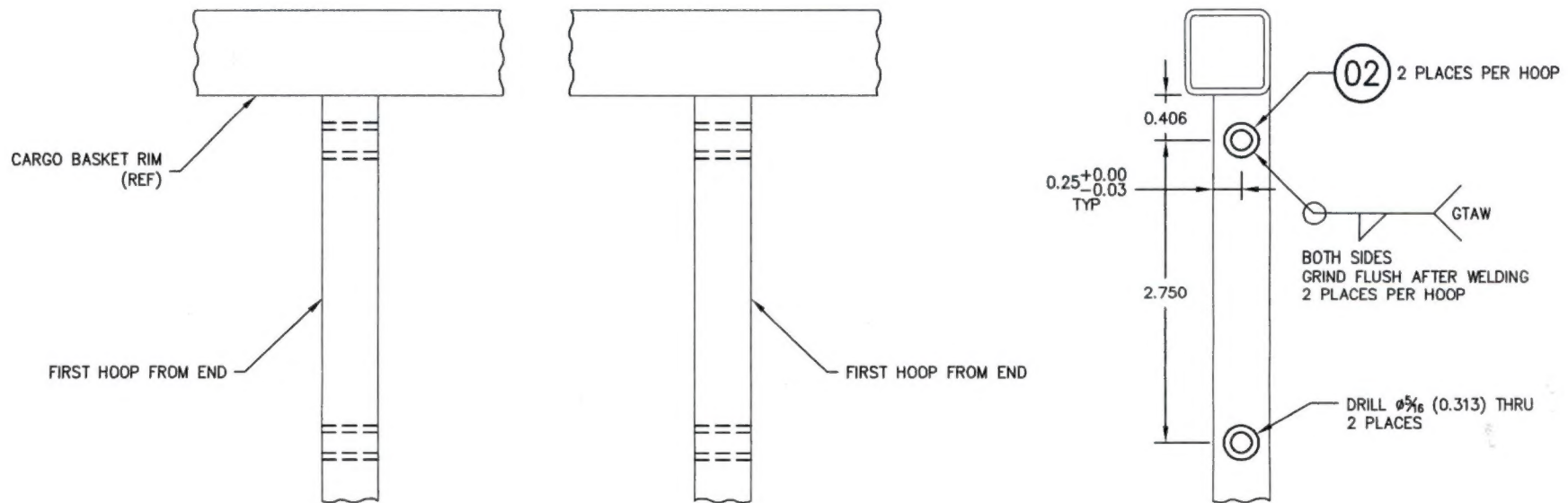
2	76624-02	04	LUG	1018 CARBON STEEL	ASTM A108	$\phi 5/8"$ ROD
1	76625-03	03	CAP	1018 CARBON STEEL	AISI 1010-1020	0.025"-0.050" SHEET
1	76625-02	02	EXTENSION	4130 STEEL COND. N	MIL-T-6736	1/2" SQR x 0.035 WALL
	76625-01	01	ATTACHMENT HOOP	4130 STEEL COND. N	MIL-T-6736	3/4" SQR x 0.065 WALL
QTY	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE

LIST OF MATERIALS

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					TEL: 604.483.2376					
					www.aerodesign.ca					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:					BELL 407 AND 206L SERIES QUICK RELEASE HIGH MOUNTED CARGO BASKET BASKET COMPONENTS – ATTACHMENT HOOP					
DECIMALS		ANGLES			DWG. SIZE		DWG. NO.		REV.	
X.XXX ±0.010		±1/2"			SCALE 1 : 5		A4		76625	
X.XX ±0.03					SHEET 1 OF 1				0	
X.X ±0.1										

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE - CREATED FROM 36262	BJC	03/11/2009
1	CHANGE LOCATION OF BUSHINGS	BJC	29/09/2011
2	UPDATED TITLE BLOCK, MOVE LID PROVISIONS TO 84263	BJC	14/02/2014



01 BASKET HANDLE PROVISIONS ASSEMBLY PROVISIONS TO BE INSTALLED IN HOOPS BEFORE ASSEMBLY TO BASKET RIM

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. WELDING TO BE COMPLETED BY GTAW METHOD TO AMS2685C USING ROD CONFORMING TO ER70S-2 OR EQUIVALENT.

4	84272-01	02	BUSHING
	84262-01	01	BASKET HANDLE PROV. ASSY
01	PART NO.	ITEM	DESCRIPTION
QTY	LIST OF MATERIALS		

APPROVALS	DATE
DRAWN: JEFF CLARKE	03 NOV 2009
CHECKED: E. BURGOIN	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ON:
DECIMALS ANGLES
X.XXX ±0.010 ±1/2°
X.XX ±0.03
X.X ±0.1



AERO DESIGN LTD.

9888A MALASPINA ROAD
POWELL RIVER, BC, CANADA, V8A 0G3
TEL: 804.483.2376 www.aerodesign.ca

HELICOPTER CARGO BASKET
BASKET HANDLE PROVISIONS ASSEMBLY

SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 1	A3	84262	2

2017-163

BUSHING/TUBE/GUIDE/THREADED LUG

General

These general instructions apply to bushings, tubes and similar round components used for Aero Design cargo baskets, mounting beams, and other products. Refer to the drawing, at the current revision, for dimensions and details. Selected drawings with applicable parts, drawings not listed may also apply:

69830 – Bell 206L/407 Mounting Beam
76630 – Bell 206L/407 High Mounting Beam
78633 – Airbus AS350 Aft Beam
78634 – Airbus AS350 Forward Beam
49215 – Lid Prop Bushing
49216 – Lid Prop Bushing

76423 – Airbus AS350 Attachment Hoop
94023 – Airbus AS350 XL Attachment Hoop
82715 – Airbus AS350 Short Step Assembly
82733 – Airbus AS350 Short Step Bracket
36274 – Handle Lever Bushing
36275 – Handle Support and Bushing

Work Order: 2017-163

Batch Quantity: 24 28 ft

Complete
(initial or SCA #)

Date Open: Oct 2017

Part Number: 76624-02

1. Cut stock material:

KB

- Enter material PO:
- Cut stock to length, + 0.03-0.06".
- Tag in-progress parts and place on in-progress shelf in machine shop.

PO: 15039

2. Turn stock material:

KB

CAUTION: Using a lathe requires training and is not to be undertaken without adequate instruction and knowledge of the processes and settings involved. Do not attempt to fabricate parts on the lathe if you are unsure of what is required to safely produce the part.

Note: Not all steps may apply to all parts. Strike out any step(s) that does not apply.

Note: Feeds and speeds are recommended starting point for aluminum, steel, and stainless steel up to 1" in diameter using the appropriate inserts. Adjust for optimal performance and finish.

- Face one end flat @ 1000 RPM, cross feed @ 0.01"/rev roughing, 0.004"/rev finishing.
- Turn outside @ 1000 RPM, feed @ 0.01"/rev roughing, 0.004"/rev finishing.
- Centre drill and drill at 300 RPM (up to 5/16", reduce for larger sizes).
- Setup stop and face other end to length @ 1000 RPM.
- De-burr outside with a file and inside with a de-burring tool at 300 RPM.
- Tag complete parts.

766 23 - 1/2"
24 - 3/4" longer
25 - 3/4"

CARGO BASKET HOOP FABRICATION - 49210

General

These instructions apply to cargo basket hoop 49210-02 and derivatives that use it as stock. Refer to the following drawings, at the current revision, for dimensions and details:

49210, Revision 1 – Basket Component - Hoop

Notes

1. Always bend 1 hoop start to finish to ensure stops and stock length are correct.
2. Always pull with consistent speed through the bend, do not stop during the pull, and do not over-pull once the stop is reached.

Work Order: 2017-163

Complete
(initial or SCA #)

Date Open: Oct 2017

J.F. OR

1. Hoop Fabrication – 49210-02

- a. Cut 1/2" x 0.035 material to ~~48.0"~~ 54 1/16" J.F., square ends.
- b. Record material PO on attached material list.
- c. De-burr cut ends using a sanding disc on a die-grinder or disc sander.
- d. Remove writing on tubes with acetone and scotch bright.
- e. On the hoop bending fixture, set the following stops:
 - i. Upper tube stop: ~~192"~~ 90° J.F.
 - ii. Lower bend stop: 12mm
- f. Slide stock tube through bending die up to upper stop. Rotate bending arm clockwise until tube is secure, ready to bend. Ensure tube remains tight to upper stop.
- g. Slide shim all the way forward on bender to secure tube in die
- h. Pull bending arm clockwise until stop is reached. Pull slowly with consistent pressure.
- i. Check tube bend for square using a hoop jig or carpenters square. Adjust stops if required.
- j. Repeat steps f.-i. for opposite end of tube.
- k. Check for: 18.5 J.F.
 - i. hoop height: 15.5" (Outside to outside)
 - ii. hoop width just above bends: 22" (outside to outside)
 - iii. adjust upper stop for height if required
 - iv. adjust stock length for width if required
 - v. twist – due to pulling bending arm up or down through bend
- l. Drill #30 vent holes in bottom centre of hoop in fore/aft direction. De-burr with scotch-brite disc on die-grinder.
- m. Inspect hoops for conformity to drawing.
- n. Tag complete and inspected hoop(s) and place into stock.

CARGO BASKET HOOP FABRICATION - 84262

General

These instructions apply to all cargo basket hoops that require handle bracket provisions. Refer to the following drawings, at the current revision, for dimensions and details:

Handle Provisions – Common to all baskets
84262, Revision 1 – Handle Bracket Assembly

76623-01
Hoops w/ HANDLE Prov.

Work Order: _____

x7

Complete
(initial or SCA #)

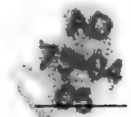
Date Open: 2017-163 Oct 2017

AD
CB 73-04
02

1. Handle Bushings – Preparation – 84262-01

Required in locations where handle brackets will be installed.

- Start with stock hoop or half hoop as required for specific basket assembly.
- Setup manual milling machine with specific hoop vise jaw. Set XY 0 on far, right edge of jaw (end of hoop).
- Drill 2 places, 5/16" (0.313) holes using 5/16 (#4) centre drill through both sides in accordance with drawing. Apply a few drops of Rapid-Tap cutting oil to each location before drilling.
 - locate 0.23" from edge (within tolerance specified on drawing).
- Wipe or blow off cutting oil and de-burr with scotch-brite disc on die-grinder.
- Tag in process hoop(s) and place into stock.



2. Handle Bushings – Welding – 84262-01

- Insert 84271-01 bushings into hoop prepared in step 2. above.
- TIG weld bushing both sides, 2 bushings per hoop.
- Record bushing and welding rod PO/WO on attached material list.
- Tag in process hoop(s) and place into stock.

AD
73-04
02

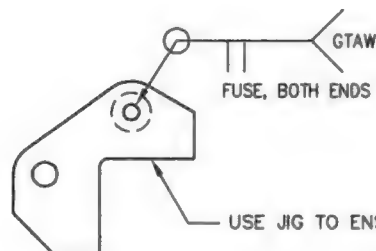
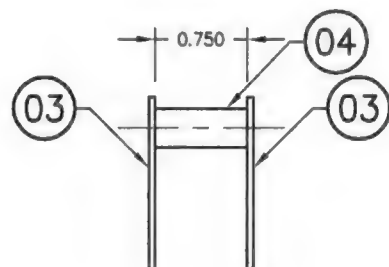
3. Handle Bushings – Finish – 84262-01

- De-burr welded bushings.
- Inspect hoop for conformity to drawing.
- Tag complete and inspected hoop(s) and place into stock.

[illegible]

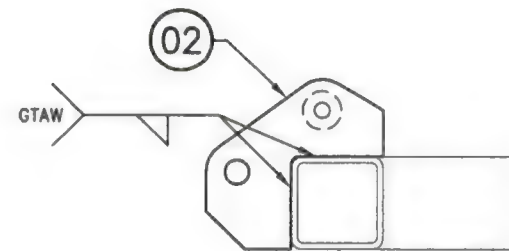
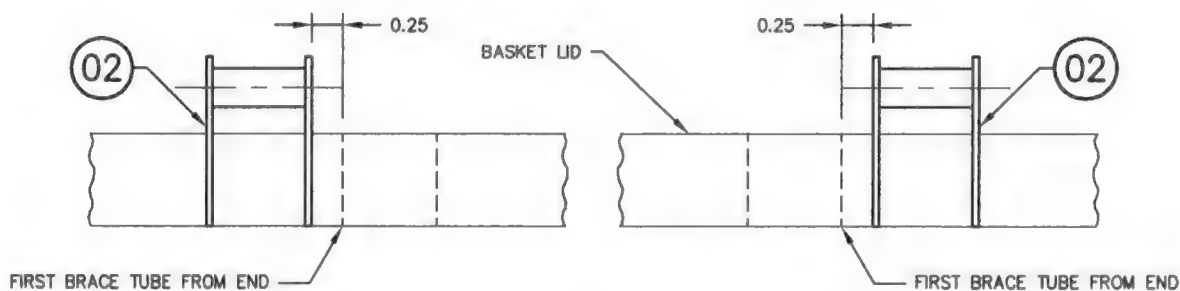
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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE - CREATED FROM 84262 REV. 1	BJC	14/02/2014



USE JIG TO ENSURE BRACKETS ARE ALIGNED

02 HANDLE BRACKET ASSEMBLY



01 LID HANDLE PROVISIONS ASSEMBLY

NOTES:

1. REMOVE ALL BURRS AND SHARP EDGES.
2. WELDING TO BE COMPLETED BY GTAW METHOD TO AMS2685C USING ROD CONFORMING TO ER308L OR EQUIVALENT.

1		36275-02	04	SUPPORT
2		36273-01	03	LID BRACKET
	2	84263-02	02	HANDLE BRACKET ASSEMBLY
		84263-01	01	LID HANDLE PROVISIONS ASSY
02	01	PART NO.	ITEM	DESCRIPTION
QTY	QTY	LIST OF MATERIALS		

APPROVALS	DATE
DRAWN: JEFF CLARKE	14 FEB 2014
CHECKED: JASON REKVE	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
TOLERANCES ON:
DECIMALS ANGLES
X.XXX ±0.010 ±1/2°
X.XX ±0.03
X.X ±0.1



AERO DESIGN LTD.

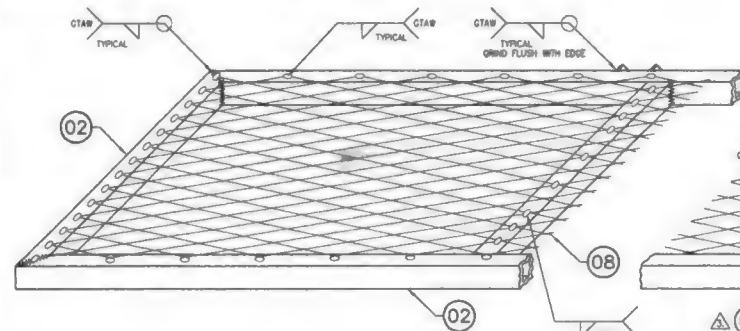
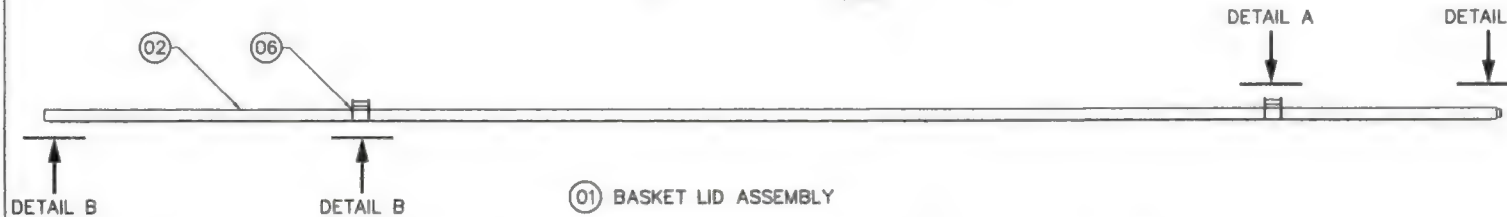
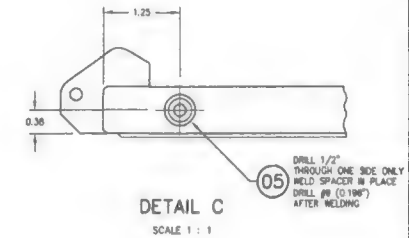
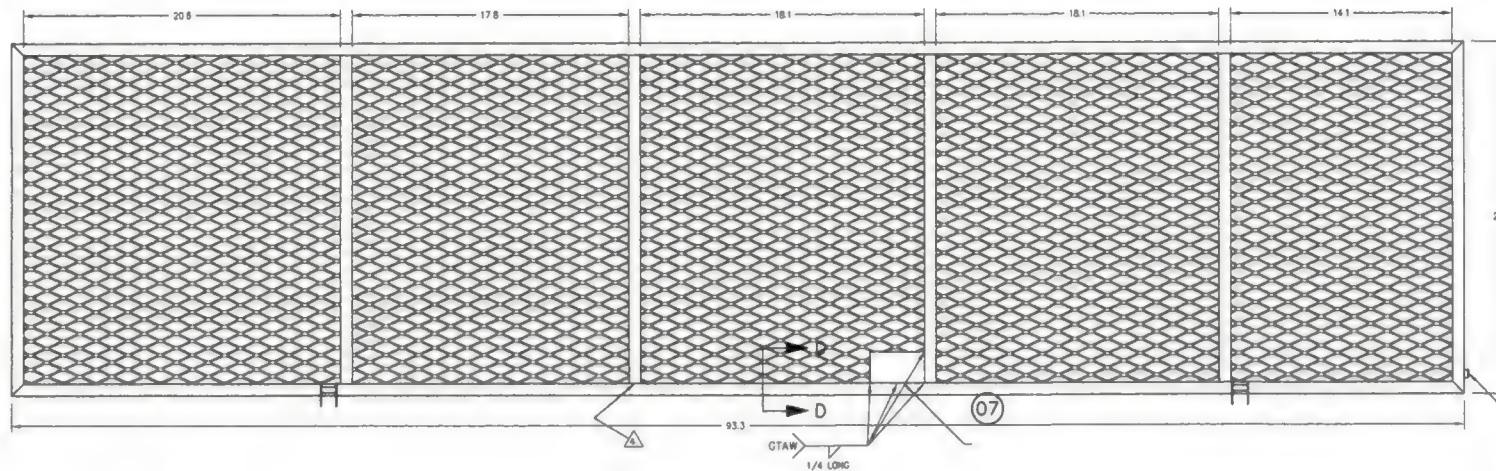
9888A MALASPINA ROAD
POWELL RIVER, BC, CANADA, V8A 0G3
TEL: 604.488.8276 www.aerodesign.ca

HELICOPTER CARGO BASKET
LID HANDLE PROVISIONS ASSEMBLY

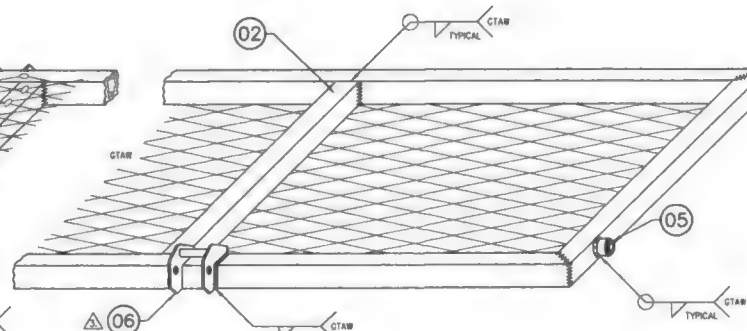
SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.
SHEET 1 OF 1	A3	84263	0

2017-163 X (7)

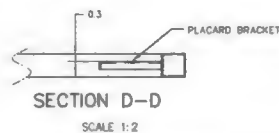
REV	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE, CREATED FROM 60632, REV 0	BUC	09/08/2018
1	HANDLE BRACKETS TO 842 CONFIG, REMOVE STEP SECTION SEE 70405		
2	WELDS UPDATED, NOTES UPDATED, SECTION D-D ADDED		



DETAIL B
LOOKING AT BOTTOM



DETAIL A
LOOKING AT TOP



NOTES:

1. REMOVE ALL BURRS AND BREAK SHARP EDGES
2. WELDING OF 4130 STEEL TO BE COMPLETED BY GTAW METHOD TO AMS 2885C
4130 AND 1018 STEEL WELDING ROD SHALL CONFORM TO ER70S-2 OR EQUIVALENT
STAINLESS AND 4130 STEEL WELDING ROD SHALL CONFORM TO ER308L OR EQUIVALENT
3. INSTALL ITEM 4 (LID HANDLE PROMINIONS ASSEMBLY) IN ACCORDANCE WITH AERO DESIGN LTD. DRAWING 84263
4. DRILL #30 (0.125) HOLES IN LONG TUBE MEMBERS AT BRACE LOCATIONS TO VENT WELD GASSES WHEN ASSEMBLY IS COMPLETE. FILL ALL EXPOSED VENT HOLES WITH ROSETTE WELD
5. FINISH: THOROUGHLY CLEAN AND POWDER COAT LID ASSEMBLY

A/R	3/4-18"	06	MESH		COMMERCIAL	16 GAUGE
1	36204-10	07	PLACARD BRACKET			
1	84263-01	06	LID HANDLE BRACKET ASS'Y			
1	49215-01	05	LUG			
		04				
		03				
A/R	3/4" TUBE			4130 STEEL COND N	MIL-T-6736	0.75 X 0.035 SOR TUB
	60632-01	01	BASKET LID ASSEMBLY			
01	PART NO	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	
QTY	LIST OF MATERIALS					

APPROVALS	DATE	
DRAM: JEFF CLARKE	09 AUG 2018	
CHECKED: JASON REKVE	09 AUG 2018	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:		
DECIMALS	ANGLES	
X.XX ±0.010	±1/2"	
X.XX ±0.03		
X.X ±0.1		
SCALE 1 : 4	DATE SIZE	DATE NO
SHEET 1 OF 1	A1	76612
		0

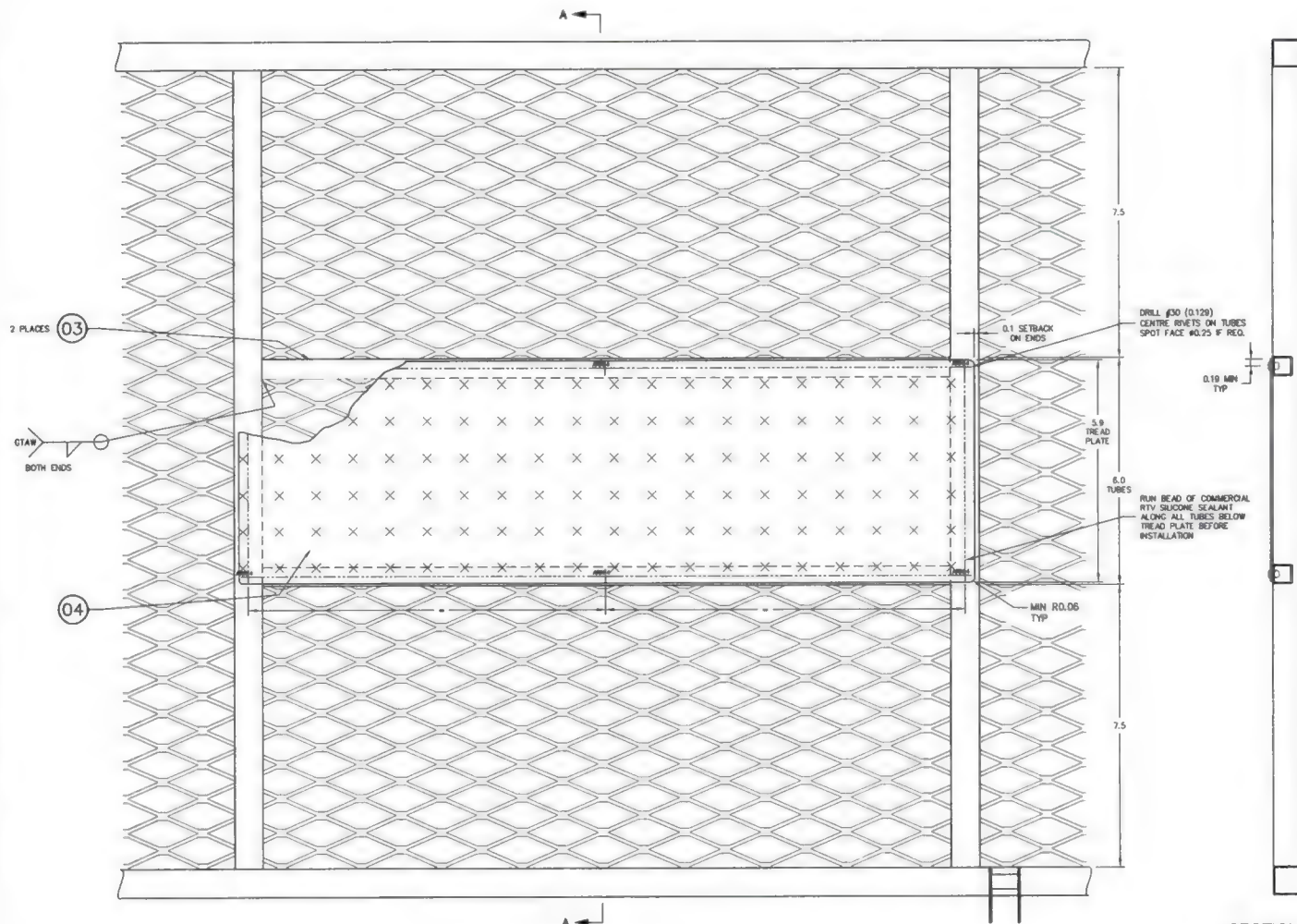


AERO DESIGN LTD.

9888A MALASPINA ROAD
POWELL RIVER, BC, CANADA, V8A 0G3
TEL: 804.683.2378 www.aerodesign.ca

BELL 407, 206L SERIES
HIGH SIDE MOUNTED CARGO BASKET
CARGO BASKET LID ASSEMBLY

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	ADD BELL MEDIUM AND EUROCOPTER AS350 BASKETS, CHANGE TUBES	BJC	MAR 19/06
2	ADD EUROCOPTER EC135, MCDONNELL DOUGLAS MD600N, BELL 206B BASKETS	BJC	DEC 4/08
3	ADD NEW AS350 AND 206L/407 MODELS	BJC	DEC 4/08
4	TITLE BLOCK UPDATED; MODEL LIST REMOVED; ADD ALT. RVMT; ADD NOTE 7	BJC	29/05/2011





SECTION A-A

① BASKET LID ASSEMBLY

NOTES:

1. THIS DRAWING IS AN OPTIONAL CONFIGURATION ADDING A TREAD PLATE STEP TO THE LID. THIS CONFIGURATION MAY BE APPLIED TO ANY OR ALL BAYS OF THE LID. REMAINDER OF LID ASSEMBLY IS TO BE FABRICATED IN ACCORDANCE WITH THE APPLICABLE DRAWINGS.
2. TUBES (ITEM 03) MUST BE WELDED IN PLACE BEFORE MESH IS WELDED ON BOTTOM.
3. REMOVE ALL BURRS AND BREAK EDGES.
4. WELD 4130 STEEL TO BE COMPLETE BY GTAW METHOD TO AWS 285C.
WELDING ROD SMALL SHAFT FORMER TO ER70S-2 OR EQUIVALENT.
5. WHEN ASSEMBLY IS COMPLETE, FILL ALL VENT HOLES WITH ROSETTE WELD.
6. THOROUGHLY CLEAN AND POWDER COAT BASKET SUB-ASSEMBLES PRIOR TO ASSEMBLY. INSTALL TREAD PLATE AFTER POWDER COATING.
7. LOCATION AND POSITION OF TREAD PLATE MUST BE ADJUSTED TO MATCH LID DOOR INSTALLED IN ACCORDANCE WITH DRAWING 70402 ON ADJACENT BAY OF THE LID.

A/R	CR3213-4-02	BLIND RIVET	ALTERNATE: HR5213-4-02			
1	704045-04	04 TREAD PLATE	ALUMINUM	COMMERCIAL	0.063 TREAD PLATE	
2	704045-03	03 TUBE	4130 STEEL COND N	WE-T-8738	0.5 X 0.035 WALL TUBE	
1	SEE NOTE	02 BASKET LID ASSEMBLY				
	704045-01	01 BASKET LID ASSEMBLY - MODIFIED WITH STEP				
Q1	PART NO	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
QTY	LIST OF MATERIALS					

BASIC CODE REF HAS 523		DASH NO. FOR DIAMETER =INCH, HEAD NEAR SIDE =INCH, HEAD FAR SIDE		APPROVALS DRAWN: JEFF CLARKE CHECKED: E BURDICK		DATE 21 SEPT 2008				AERO DESIGN LTD. 9088A MALAYSIAN ROAD POWELL RIVER, BC, CANADA, V0A 0G5 TEL: 800-468-3378 www.aerodesign.ca	
C-COUNTERS D-DIMPLE DIST-T of SHEETS TO BE COMPLETED		DASH NO. FOR LENGTH		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX ±.010 X.XX ±0.03 X.X ±0.1		CARGO BASKET LID STEP MODIFICATION				SCALE 1 : 1.5 SHEET 1 OF 1	
BASIC CODES: BJ = MS20470AD BB = MS20426AD AH = CR3213 AR = CR3212		+ ⊕ INSTALL NEW RIVET + ⊕ REMOVE/REPLACE RIVET - ⊕ EXISTING RIVET		DECIMALS X.XXX ±.010 X.XX ±0.03 X.X ±0.1		Dwg. No. A1 70405		REV. 4			

2017-163 X(7)
1-5

CARGO BASKET LID FABRICATION - COMMON

General

These instructions apply to all cargo basket lid assemblies. Refer to the following drawings, at the current revision, for dimensions and details:

Bell 206L/407 – Right side only

69812, Revision 3 – Standard Low Mounted Basket; Extra-Wide Low Mounted Basket

94612, Revision 0 – Extra-Wide Low Mounted Ski Basket

76612, Revision 0 – High Mounted Ski Basket



Eurocopter AS350/AS355 – left or right

77612, Revision 1 – Short Basket

69812, Revision 3 – Medium Basket (left and right)

78412, Revision 2 – Long Basket

94012, Revision 0 – Extra Large (ski) Basket

Robinson R44 – left or right

90612, Revision 0 – Standard Basket (left or right)

Bell 206B – right side only

80212, Revision 0 – Short Basket

80312, Revision 0 – Medium Basket

81112, Revision 0 – Long Basket

Bell 429 – right or left

95912, Revision 0 – Standard Basket

Bell Medium – left or right

75112, Revision 0 – Standard Basket

95512, Revision 0 – Extra Large (ski) Basket

MD600

82812, Revision 0 – Standard Basket

Options

70405, Revision 3 – Walkway

70402, Revision 1 – Lid Door

CARGO BASKET LID FABRICATION

Complete
(initial or SCA #)

Work Order: 2017-163

Date Open: Oct 2017

1. Rim Assembly – Basket Lid

- Cut and fit $\frac{3}{4}$ " x 0.035 material to fit rim jig, 45 degree ends.
 - 1 or 2 lid prop bushing holes in short tube – refer to drawing
- Record material PO on attached material list.
- Remove writing on tubes with acetone and scotch bright.

2. Weld Rim Assembly

- Record welding rod PO on attached material list.

3. Inspection

- Rim for complete welds

4. Frame assembly – Lid

- General
 - Vent holes shall be #30 (0.129), and located inside the structure wherever possible to allow venting of weld gasses through existing holes (i.e. lid prop bushing)
- Insert rim from step 2 into jig.
- Cut and fit $\frac{3}{4}$ " x 0.035 material, 21" long, for lid cross members.
- Record material PO on attached material list.
- Remove writing on tubes with acetone and scotch bright.
- Drill vent holes into rim to vent cross members into rim.
- Locate cross members in lid rim. Refer to drawing for spacing of cross members. Clamp cross members with C-clamps to jig.

5. Frame assembly – Lid with optional walkway modification

- Fit cross members to rim in accordance with step 4.
- Attach walkway jig with C-clamps. Ensure correct orientation of rim, refer to drawing.
- Cut $\frac{1}{2}$ " x 0.035 material for walkway stringers to fit between lid cross members. Record material PO on attached material list.
- Drill vent holes into cross members at walkway stringers.
- Align walkway stringers on walkway jig using cleco clamps near both ends of each stringer, and clamp stringer to jig using a C-clamp in the centre.

6. Weld frame assembly.

- Record welding rod PO on attached material list.
- Jigs must remain in place for as long as practical during welding.

7. Inspection

- Frame assembly for complete welds.

CARGO BASKET LID FABRICATION

Complete
(initial or SCA #) Jf. 73-04
02

- ### 8. Mesh assembly.

Note: 95912 (Bell 429) does not have mesh. Skip to step 10.

- Pull sheet of expanded mesh from stock. Record material PO on attached material list.
- Cut mesh to size for lid.
- Remove surface rust with scotch-brite.
- Ensure lid is prepared for mesh on the correct side. ☐ ☐ ☐ ☐

de. AD	AD	AD	AD	AD
73-04	73-04	73-04	73-04	73-04
05	05	05	05	05

9. Weld mesh to frame assembly per drawing.

- a. General welding requirements for all lids:
 - i. Every intersection on all edges.
 - ii. First 5 intersections along cross members, then every second intersection.
- b. MIG weld both short sides.
- c. Clamp lid over spacer at centre of lid to pre-tension mesh.
 - i. $\frac{3}{4}$ " for lids under 76"
 - ii. 1" (check) for lids over 76"

- d. Weld remainder of mesh as indicated in a.
- e. Record welding rod PO on attached material list.

AD 73-04 05 AD 73-04 05 AD 73-04 05 AD 73-04 05 AD 73-04 05

10. Weld lid components.

- a. Handle brackets, locate in accordance with drawing.
 - i. Standard location: ¼" outside of last cross member on both ends.
 - ii. Record handle bracket WO and welding rod PO on attached material list.
- b. Lid prop bushing(s).
 - i. one or two in accordance with drawing.
 - ii. Record lip prop bushing WO and welding rod PO on attached material list.
- c. Placard bracket. – not installed on 95912 (Bell 429)
 - i. Locate on cross member to set bracket in centre bay of lid.
 - ii. Record placard bracket WO and welding rod PO on attached material list.

- ## 11. Clean up

- a. Grind high spots off mesh welds.
- b. Tighten mesh using special pliers. Tighten enough to remove "oil canning", where mesh springs in or out.
- c. Straighten lid using frame attached under welding table. Work carefully, avoid excessive force to prevent kinking rim tubes.
- d. Drill #9 through lid prop bushing(s). De-burr hole(s).
- e. ~~Drill for lid bumpers using 1/4" (#3) centre drill.~~
 - i. ~~3 places for lids under 76"~~
 - ii. ~~4 places for lids over 76"~~
- f. Remove surface rust with scotch-brite pad.

- ## 12. Final Inspection

To be completed by a different person than the previous steps.

- Basket lid assembly for complete welds, and required minimum mesh weld locations.
- Material lists complete.
- Overall condition and conformity to drawing(s).

AD 73-04 02 AD 73-04 02 AD 73-04 02 AD 73-04 02 AD 73-04 02

CARGO BASKET LID FABRICATION

Complete
(initial or SCA #)

13. Powder Coating

- a. Parts are to be powder coated white in accordance with commercial practices.
- b. Record powder coating PO.
- c. Inspect powder coating on receiving.
- d. Tag lid assembly and place into stock in preparation for assembly.

dk dk dk dk dk

2017-163 X(7)
6-7

CARGO BASKET LID FABRICATION - COMMON

General

These instructions apply to all cargo basket lid assemblies. Refer to the following drawings, at the current revision, for dimensions and details:

Bell 206L/407 – Right side only

69812, Revision 3 – Standard Low Mounted Basket; Extra-Wide Low Mounted Basket

94612, Revision 0 – Extra-Wide Low Mounted Ski Basket

76612, Revision 0 – High Mounted Ski Basket



Eurocopter AS350/AS355 – left or right

77612, Revision 1 – Short Basket

69812, Revision 3 – Medium Basket (left and right)

78412, Revision 2 – Long Basket

94012, Revision 0 – Extra Large (ski) Basket

Robinson R44 – left or right

90612, Revision 0 – Standard Basket (left or right)

Bell 206B – right side only

80212, Revision 0 – Short Basket

80312, Revision 0 – Medium Basket

81112, Revision 0 – Long Basket

Bell 429 – right or left

95912, Revision 0 – Standard Basket

Bell Medium – left or right

75112, Revision 0 – Standard Basket

95512, Revision 0 – Extra Large (ski) Basket

MD600

82812, Revision 0 – Standard Basket

Options

70405, Revision 3 – Walkway

70402, Revision 1 – Lid Door

6-7

CARGO BASKET LID FABRICATION**Complete**
(initial or SCA #)Work Order: 2017-163Date Open: Oct 2017

1. Rim Assembly – Basket Lid

- a. Cut and fit $\frac{3}{4}$ " x 0.035 material to fit rim jig, 45 degree ends.
 - i. 1 or 2 lid prop bushing holes in short tube – refer to drawing
- b. Record material PO on attached material list.
- c. Remove writing on tubes with acetone and scotch bright.

AD
73-04
05AD
73-04
05

2. Weld Rim Assembly

- a. Record welding rod PO on attached material list.

AD
73-04
05AD
73-04
05

3. Inspection

- a. Rim for complete welds

AD
73-04
02AD
73-04
02

4. Frame assembly – Lid

- a. General
 - i. Vent holes shall be #30 (0.129), and located inside the structure wherever possible to allow venting of weld gasses through existing holes (i.e. lid prop bushing)
- b. Insert rim from step 2 into jig.
- c. Cut and fit $\frac{3}{4}$ " x 0.035 material, 21" long, for lid cross members.
- d. Record material PO on attached material list.
- e. Remove writing on tubes with acetone and scotch bright.
- f. Drill vent holes into rim to vent cross members into rim.
- g. Locate cross members in lid rim. Refer to drawing for spacing of cross members. Clamp cross members with C-clamps to jig.

AD
73-04
05AD
73-04
05

5. Frame assembly – Lid with optional walkway modification

- a. Fit cross members to rim in accordance with step 4.
- b. Attach walkway jig with C-clamps. Ensure correct orientation of rim, refer to drawing.
- c. Cut $\frac{1}{2}$ " x 0.035 material for walkway stringers to fit between lid cross members. Record material PO on attached material list.
- d. Drill vent holes into cross members at walkway stringers.
- e. Align walkway stringers on walkway jig using cleco clamps near both ends of each stringer, and clamp stringer to jig using a C-clamp in the centre.

AD
73-04
05AD
73-04
05

6. Weld frame assembly.

- a. Record welding rod PO on attached material list.
- b. Jigs must remain in place for as long as practical during welding.

AD
73-04
05AD
73-04
05

7. Inspection

- a. Frame assembly for complete welds.

AD
73-04
02AD
73-04
02

CARGO BASKET LID FABRICATION

Complete
(initial or SCA #) J.F. AD
73-04
02

8. Mesh assembly.

Note: 95912 (Bell 429) does not have mesh. Skip to step 10.

- Pull sheet of expanded mesh from stock. Record material PO on attached material list.
- Cut mesh to size for lid.
- Remove surface rust with scotch-brite.
- Ensure lid is prepared for mesh on the correct side.

AD
73-04
05

AD
73-04
05

9. Weld mesh to frame assembly per drawing.

- General welding requirements for all lids:
 - Every intersection on all edges.
 - First 5 intersections along cross members, then every second intersection.
- MIG weld both short sides.
- Clamp lid over spacer at centre of lid to pre-tension mesh.
 - $\frac{3}{4}$ " for lids under 76"
 - 1" (check) for lids over 76"
- Weld remainder of mesh as indicated in a.
- Record welding rod PO on attached material list.

AD
73-04
05

AD
73-04
05

10. Weld lid components.

- Handle brackets, locate in accordance with drawing.
 - Standard location: $\frac{1}{4}$ " outside of last cross member on both ends.
 - Record handle bracket WO and welding rod PO on attached material list.
- Lid prop bushing(s).
 - one or two in accordance with drawing.
 - Record lip prop bushing WO and welding rod PO on attached material list.
- Placard bracket. – not installed on 95912 (Bell 429)
 - Locate on cross member to set bracket in centre bay of lid.
 - Record placard bracket WO and welding rod PO on attached material list.

11. Clean up

- Grind high spots off mesh welds.
- Tighten mesh using special pliers. Tighten enough to remove "oil canning", where mesh springs in or out.
- Straighten lid using frame attached under welding table. Work carefully, avoid excessive force to prevent kinking rim tubes.
- Drill #9 through lid prop bushing(s). De-burr hole(s).
- ~~Drill for lid bumpers using $\frac{1}{4}$ " (#3) centre drill.~~
 - ~~3 places for lids under 76"~~
 - ~~4 places for lids over 76"~~
- Remove surface rust with scotch-brite pad.

J.F. J.F. OK

12. Final Inspection

To be completed by a different person than the previous steps.

- Basket lid assembly for complete welds, and required minimum mesh weld locations.
- Material lists complete.
- Overall condition and conformity to drawing(s).

AD
73-04
02

AD
73-04
02

CARGO BASKET LID FABRICATION

Complete
(initial or SCA #)

13. Powder Coating

- a. Parts are to be powder coated white in accordance with commercial practices.
- b. Record powder coating PO.
- c. Inspect powder coating on receiving.
- d. Tag lid assembly and place into stock in preparation for assembly.

AD
73-04
02

AD
73-04
02

Work Order: 2017-163
 Date Opened: OCT 2017

Material Tracking Sheet
 Bell 206L / 407
 HIGH Lid Fabrication

1 of 2

Ass'y Step	Qty	Detail Drawing	Part Number	Description	Material	PO/WO
	<u>7</u>		60632-01	Lid Assembly		
Step 1				<i>Rim Assembly</i>		
	. 2		--	3/4" Tube - Long Rim (93.25")	4130 Steel, 3/4" x 0.035 Sqr. Tube	<u>17055</u>
	. 2		--	3/4" Tube - Short Rim (22.5")	4130 Steel, 3/4" x 0.035 Sqr. Tube	<u>17055</u>
Step 2				<i>Weld Rim Assembly</i>		
	. A/R		--	Welding Rod	ER70S-2 TIG Rod	<u>16078</u>
Step 3				<i>Inspection - Rim</i>	None	
Step 4				<i>Frame Assembly</i>		
	. 4		--	3/4" Tube - Cross Member (21")	4130 Steel, 3/4" x 0.035 Sqr. Tube	<u>2017-153 (7) 17055 (21)</u>
Step 5		70405		<i>Option: Frame Assembly - with walkway</i>		
	. 10		--	1/2" Tube - walkway	4130 Steel, 1/2" x 0.035 Sqr. Tube	<u>17082</u>
Step 6				<i>Weld Frame Assembly</i>		
	. A/R		--	Welding Rod	ER70S-2 TIG Rod	<u>16078</u>
Step 7				<i>Inspection - Frame Assembly</i>	None	
Step 8				<i>Mesh Assembly</i>		
	. 1		--	Mesh (lid - 93" x 22")	3/4-16F Expanded Mild Steel sheet	<u>17025</u>
Step 9				<i>Weld Mesh</i>		
	. A/R		--	Welding Rod	ER70S-6 MIG Wire	<u>16078</u>

Work Order: 2017-163

Material Tracking Sheet

2 of 2

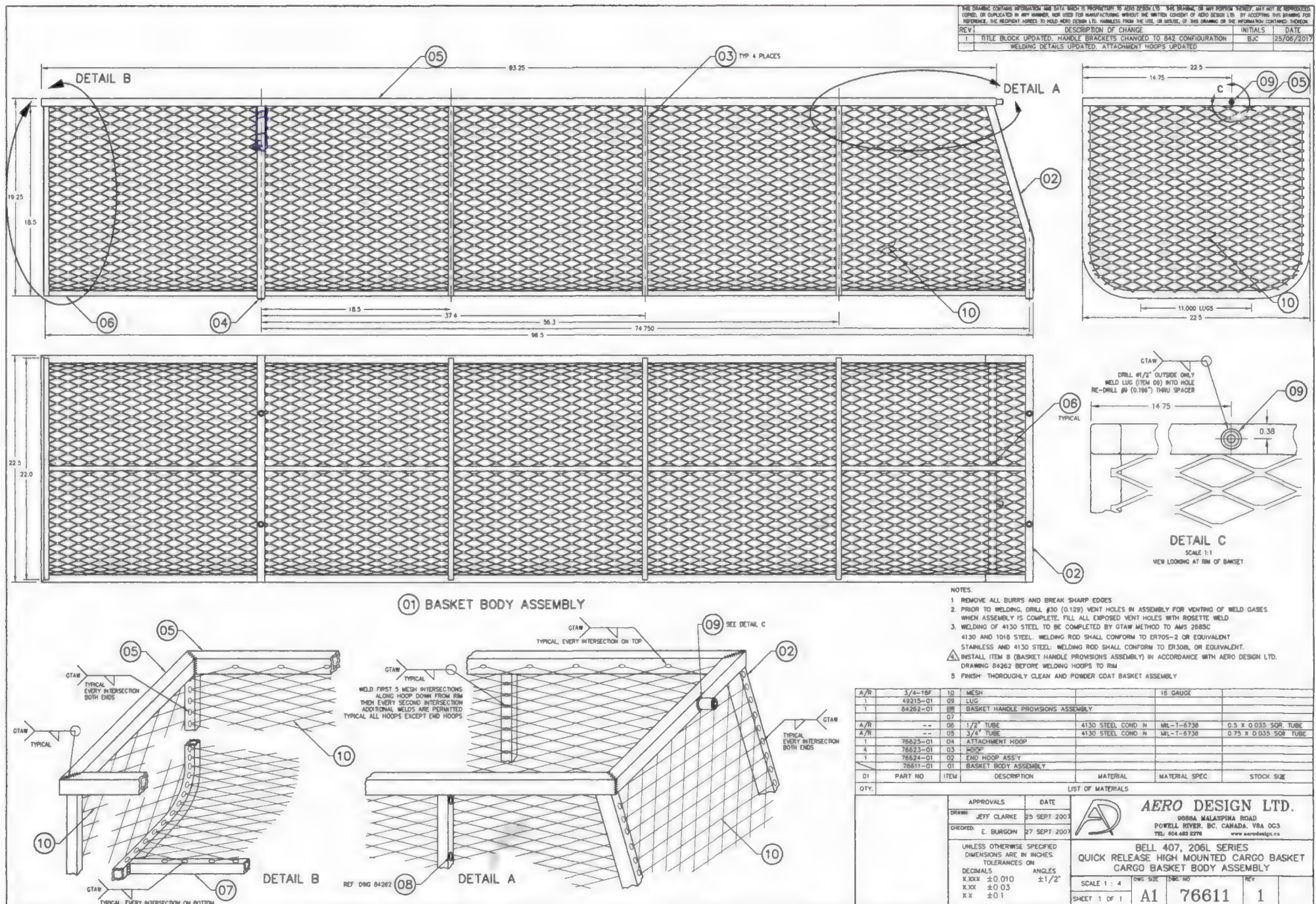
Bell 206L / 407

Date Opened: Oct 2017

HIGH Lid Fabrication

Ass'y Step	Qty	Detail Drawing	Part Number	Description	Material	PO/WO
Step 10				<i>Weld Lid Components</i>		
Step 10.a.	. 1	84263	84263-01	Lid Handle Bracket Assembly		2016-147
	. . 2		84263-02	Handle Bracket Assembly	321 Stainless, 0.050 Sheet	
	. A/R		--	Welding Rod	ER308L TIG Rod	17066
Step 10.b.	. 2		49216-01	Spacer (Lid prop)	304 Stainless, 1/2" Dia.	2015-84
	. A/R		--	Welding Rod	ER308L TIG Rod	17066
Step 10.c.	. 1		36204-10	Placard Bracket	1018 Steel, 0.035" Sheet	2016-119
	. A/R		--	Welding Rod	ER70S-2 TIG Rod	16078
Step 11				<i>Clean Up</i>		
Step 12				<i>Inspection - Final Assembly</i>		
Step 13				<i>Powder Coating</i>		17105 / 17110 (6) (1)

2017-163 X(7)



2017-163

1-5

CARGO BASKET BODY FABRICATION - COMMON

General

These instructions apply to all cargo basket body assemblies. Refer to the following drawings, at the current revision, for dimensions and details:

Bell 206L/407 – Right side only

69811, Revision 3 – Standard Low Mounted Basket

94511, Revision 0 – Extra-Wide Low Mounted Basket

94611, Revision 0 – Extra-Wide Low Mounted Ski Basket

76611, Revision 0 – High Mounted Ski Basket → Rev. 1

Options 70404, Revision 2 – Front end cutout – 698

70411, Revision 0 – Front end cutout – 945/946

Eurocopter AS350/AS355 – left or right

77611, Revision 1 – Short Basket

76411, Revision 3 – Medium Basket (left or right)

78411, Revision 2 – Long Basket

94011, Revision 0 – Extra Large (ski) Basket

Options 70406, Revision 2 – Front end cutout – 764/776/784/940

Robinson R44 – left or right

90611, Revision 0 – Standard Basket (left or right)

Bell 206B – right side only

80211, Revision 0 – Short Basket

80311, Revision 0 – Medium Basket

81111, Revision 0 – Long Basket

Options 70406, Revision 2 – Front end cutout – 802/803/811

Bell 429 – right or left

95911, Revision 0 – Standard Basket

Bell Medium – left or right

75111, Revision 0 – Standard Basket

95511, Revision 0 – Extra Large (ski) Basket

Options 70407, Revision 1 – Front end cutout – 751

704, Revision – Front end cutout – 955

MD600

82811, Revision 0 – Standard Basket

Options – Applicable to all models

70403, Revision 5 – Auxiliary Latch

CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

Work Order: 2017-163

Date Open: Oct 2017

1. Rim Assembly – Basket Body

- Cut and fit $\frac{3}{4}$ " x 0.035 material to fit rim jig.
 - 1 or 2 lid prop bushing holes in short tube – refer to drawing
- Record material PO on attached material list.
- Remove writing on tubes with acetone and scotch bright.
- For extra large baskets – drill #30 (0.129) vent holes to vent stringer tubes into rims.
- 94611 (206L/407 XL ski) only – drill for 4 threaded bushings before assembling rim.

2. Weld Rim Assembly.

- Record welding rod PO on attached material list.
- 94611 (206L/407 XL ski) only – weld 4 threaded bushings into inboard rim tube.

3. Inspection

- Rim for complete welds

4. Frame assembly – body

- General
 - Vent holes shall be #30 (0.129), and located inside the structure wherever possible to allow venting of weld gasses through existing holes (i.e. lid prop bushing, hoops, etc.)
- Grind corner welds from step 2 on rim to allow hoops to sit flat.
- Pull required hoops from stock - standard, attachment, handle.
 - If hoops are not in stock see detailed procedure sheet for specific hoop fabrication.
 - Ensure vent hole is located at centre of tube to vent spine tubes.
- Assemble hoops with attachment lug locating jig and hoop spacing jig.
 - Ensure correct order and orientation of hoops. Refer to drawing.
 - Attachment lugs are on inboard side.
 - Handle bracket bushings are on outboard side, second hoop from both ends. May be on attachment hoops.
 - Run 3/8-24 tap into attachment lugs to ensure clear threads.
 - Bolt attachment lug locating jig to attachment hoops with 3/8-24 bolts.
 - Attach inboard and outboard hoop spacing jigs to all hoops using 1" C-clamps. Raise jigs approximately 2" off table to allow room to weld around hoops.
 - Attach bottom (spine) jig to all hoops using 1" C-clamps along the centre line of the basket. Ensure jig is straight prior to tightening all clamps.
- Cut $\frac{1}{2}$ " x 0.035 material to fit spine jig.
- Cut $\frac{1}{2}$ " x 0.035 material for strut to fit from lower inboard attachment to upper outboard rim.
 - Refer to applicable drawing for position, not required on some baskets.
- Option: Cut $\frac{1}{2}$ " x 0.035 material for front end cutout. Record material PO on attached material list.
- 90611 (R44) only: Cut $\frac{1}{2}$ " x 0.035 material to fit front end structure. Record material PO on attached material list.
- Drill vent holes into attachment hoop and/or rim to vent strut(s) and front end cutout.

CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

- j. Record hoop WOs and material POs on attached material list.
- k. Remove writing on tubes with acetone and scotch bright.
- l. Insert rim assembly into jig and set frame assembly onto rim. Ensure correct orientation of lid prop bushings in rim to frame. Bushing hole must be closer to attachment side.
- m. Align hoops to rim in accordance with drawing. General positions:
 - i. Extra large baskets
 - 1. inboard side of hoops (attachment side) aligns to OUTSIDE of rim
 - 2. outboard side of hoops (handle side) aligns to INSIDE of rim
 - 3. forward and aft hoops align to INSIDE of rim
 - ii. All other baskets
 - 1. inboard side of hoops (attachment side) aligns to INSIDE of rim
 - 2. outboard side of hoops (handle side) aligns to INSIDE of rim
 - 3. forward and aft hoops align to INSIDE of rim, except R44

5. TIG weld frame to rim assembly.

- a. Ensure lug locating jig and hoop locating jigs are in place. Jigs must remain in place for as long as practical during welding.
- b. Strut tubes and front end cutout (see step 4.f. and g.) must be welded in place after the hoops are welded to the rim. Jig(s) must be in place prior to welding strut tubes.
- c. Robinson R44 (90611) requires fitting and welding of forward end after remainder of basket frame is welded. Use jig to support front hoop.
- d. Record welding rod PO on attached material list.

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73-04 73-04 73-04 73-04 73-04
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6. Inspection

- a. Frame assembly for complete welds.

AD AD AD AD AD
73-04 73-04 73-04 73-04 73-04
05 05 05 05 05

7. Mesh assembly.

- a. Pull sheet of expanded mesh from stock. Record material PO on attached material list.
- b. Cut mesh to size for body.
- c. Remove surface rust with scotch-brite.
- d. Bend body mesh – use table with bend markings on top. Lock wheels on table.
 - i. For extra wide baskets only –
 - 1. Set $\frac{3}{4}$ " angle along edge of table under mesh sheet. Set 1.5" square tube on top of mesh aligned with angle on edge of table. Clamp in place with 6" C-clamps.
 - 2. Bend upper edge of sheet just past a cell intersection to make a flange 2.5" - 3.25" wide. Closer to 2.5" is preferred, full cell intersection on flange side at bend is required.
 - 3. Bend down by hand as far as possible, then use a hammer to flatten the bend tight against the angle on the edge of the table.
 - ii. Using markings on table, align sheet to indicated edge.
 - iii. Using markings on table, align 3" tube to required position and clamp tube in place.
 - iv. Bend mesh by hand tightly over tube along length of tube.
 - v. Keeping mesh in place, un-clamp 3" tube, move to other position and clamp tube in place.
 - vi. Bend mesh by hand tightly over tube along length of tube.
- e. Install attachment lug jig onto basket frame.

JF JF JF JF JF

CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

- f. Ensure end struts are welded in basket frame if required by the drawing.
- g. Insert mesh into basket.
 - i. General
 1. Some cells may interfere with correct positioning, especially at the upper corners and around struts. Bend cell(s) in as required, do not cut cells off.
 2. Ideally welds will be located on mesh intersections. Shift mesh if possible to minimize welds located off mesh intersections.
 3. Ensure mesh reaches all edges of basket BEFORE trimming. Regardless of progress in clamping, remove clamps and shift mesh if required.
 4. Ensure cleco clamps are placed from the inside of the basket to allow removal during welding. Cleco clamps may be used from the outside during fitting, but must be removed prior to welding.
 - ii. Extra large baskets only – seat corner of mesh with flange into inboard upper corner of frame. Use C-clamps on edge of flange as required to maintain tight fit.
 - iii. Starting at inboard top edge of basket, clamp mesh to hoop near top rim using cleco clamps onto hoops. For regular size baskets, edge of mesh should sit approximately half way up rim tube.
 - iv. Working down the inboard side, clamp mesh to hoops with cleco clamps. Clamp down into radius of hoop and continue clamping as required to maintain tight fit in corner of hoop. After the corners are tight, two clamps just onto the radius on both ends should be sufficient to hold the corner tight, remove all extra clamps.
 - v. Clamp mesh to spine in at least 1 place per section.
 - vi. Working up the outboard side, clamp the mesh into the radius of hoop and continue clamping as required to maintain tight fit in corner of hoop. After the corners are tight, 2 clamps just onto the radius on both ends should be sufficient to hold the corner tight, remove all extra clamps.
 - vii. Trim upper outboard edge of mesh if required, edge of mesh must be low enough on rim tube to prevent the weld from protruding above the edge of the rim. Some sheets are tapered and may require ½ to 1 cell to be removed over some or all of the length of the basket. De-burr cut edges with a sanding disc on a die-grinder. Straighten cut cells with duck-bill pliers. Clamp mesh near upper edge to hoops with cleco clamps after trimming.
 - viii. Trim ends to land on hoops, at mesh intersections if possible.
- h. Cut mesh to fit ends. Record material PO on attached material list.
 - i. Remove surface rust with scotch-brite.
 - ii. Ensure mesh is cut at intersections where possible.
 - iii. Bend top edge of mesh 1/8"-3/16" down at 45 degrees
 - iv. Cut for front end cutout if required.
- i. 90611 (R44) only: Cut mesh to fit upper forward end. Record material PO on attached material list.
 - i. Remove surface rust with scotch-brite.
 - ii. Ensure mesh is cut at intersections where possible.
 - iii. Bend top edge of mesh 1/4" down at 60 degrees.
 - iv. Fit mesh to front end of basket.

CARGO BASKET BODY FABRICATION - COMMON

Complete

8. Weld mesh to frame assembly per drawing.
- a. Ensure lug locating jig is in place prior to welding.
 - b. General welding requirements for all baskets, MIG welding:
 - i. Every intersection at top edges.
 - ii. Every intersection at ends.
 - iii. First 5 intersections down on hoops, then every second intersection.
 - iv. Every intersection along spine.
 - v. Extra large baskets – every intersection along corner.
 - vi. Every intersection around ends
 - vii. Every intersection along struts (if applicable)
 - c. Bend and trim cells bent in to fit mesh as required and weld in position.
 - d. Grind high spots off body mesh welds on ends before welding end mesh.
 - e. 90611 (R44) only – weld lid prop bushing (step 9) into rim BEFORE welding upper mesh on forward end of basket assembly.
 - f. Record welding rod PO on attached material list.

9. Weld basket components

- a. TIG weld lid prop bushing(s), one or two per drawing.
 - i. Record welding rod PO on attached material list.
 - ii. Record lip prop bushing WO on attached material list.
- b. TIG weld caps to close top of 1" hoops as applicable.
- c. 94611 (Bell206L/407 XL ski) only: cut rim over cross tube gap.
 - i. Cut inboard rim on aft end. Grind flush with hoops.
 - ii. TIG weld caps on open tubes.
 - iii. Record cap material PO on attached material list.
- d. 95911 (Bell 429) only: placard bracket to forward upper corner of basket.
 - i. Record welding rod PO on attached material list.
 - ii. Record placard bracket WO on attached material list.

10. Clean up

- a. Grind high spots off mesh welds.
- b. Tighten mesh using special pliers. Tighten enough to remove "oil canning", where mesh springs in or out. Do not tighten in corners of hoops, mesh will be deformed.
- c. ~~Drill #9 through lid prop bushing(s). De-burr hole(s).~~
- d. Remove surface rust with scotch-brite pad.

11. Final Inspection

To be completed by a different person than the previous steps.

- a. Basket body assembly for complete welds, and required minimum mesh weld locations.
- b. Filled vent holes – usually on hoops
- c. Overall condition and conformity to drawing(s).
 - i. Hoops for height.
 - ii. Rim for width and length and alignment.
 - iii. Lid prop lugs in correct ends.
 - iv. Fore/aft strut in hoop if required by drawing.
- d. Material lists complete.

CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

- e. Tag complete basket body assembly in preparation for powder coating.

12. Powder Coating

- a. Parts are to be powder coated white in accordance with commercial practices.
b. Record powder coating PO.
c. Inspect powder coating on receiving.
d. Tag basket body assembly and place into stock in preparation for assembly.

PD	PD	PD	PD	PD
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02	02	02	02	02

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CARGO BASKET BODY FABRICATION - COMMON

General

These instructions apply to all cargo basket body assemblies. Refer to the following drawings, at the current revision, for dimensions and details:

Bell 206L/407 – Right side only

69811, Revision 3 – Standard Low Mounted Basket

94511, Revision 0 – Extra-Wide Low Mounted Basket

94611, Revision 0 – Extra-Wide Low Mounted Ski Basket

76611, Revision 0 – High Mounted Ski Basket

Options 70404, Revision 2 – Front end cutout – 698

70411, Revision 0 – Front end cutout – 945/946

← Rev 1

Eurocopter AS350/AS355 – left or right

77611, Revision 1 – Short Basket

76411, Revision 3 – Medium Basket (left or right)

78411, Revision 2 – Long Basket

94011, Revision 0 – Extra Large (ski) Basket

Options 70406, Revision 2 – Front end cutout – 764/776/784/940

Robinson R44 – left or right

90611, Revision 0 – Standard Basket (left or right)

Bell 206B – right side only

80211, Revision 0 – Short Basket

80311, Revision 0 – Medium Basket

81111, Revision 0 – Long Basket

Options 70406, Revision 2 – Front end cutout – 802/803/811

Bell 429 – right or left

95911, Revision 0 – Standard Basket

Bell Medium – left or right

75111, Revision 0 – Standard Basket

95511, Revision 0 – Extra Large (ski) Basket

Options 70407, Revision 1 – Front end cutout – 751

704, Revision – Front end cutout – 955

MD600

82811, Revision 0 – Standard Basket

Options – Applicable to all models

70403, Revision 5 – Auxiliary Latch

6-7

CARGO BASKET BODY FABRICATION - COMMON**Complete**
(initial or SCA #)Work Order: 2017-163Date Open: Oct 2017

AD	AD
73-04	73-04
<u>05</u>	<u>05</u>

1. Rim Assembly – Basket Body

- Cut and fit $\frac{3}{4}$ " x 0.035 material to fit rim jig.
 - 1 or 2 lid prop bushing holes in short tube – refer to drawing
- Record material PO on attached material list.
- Remove writing on tubes with acetone and scotch bright.
- For extra large baskets – drill #30 (0.129) vent holes to vent stringer tubes into rims.
- 94611 (206L/407 XL ski) only – drill for 4 threaded bushings before assembling rim

AD	AD
73-04	73-04
<u>05</u>	<u>05</u>

2. Weld Rim Assembly.

- Record welding rod PO on attached material list.
- 94611 (206L/407 XL ski) only – weld 4 threaded bushings into inboard rim tube.

AD	AD
73-04	73-04
<u>05</u>	<u>05</u>

3. Inspection

- Rim for complete welds

AD	AD
73-04	73-04
<u>05</u>	<u>05</u>

4. Frame assembly – body

- General
 - Vent holes shall be #30 (0.129), and located inside the structure wherever possible to allow venting of weld gasses through existing holes (i.e. lid prop bushing, hoops, etc.)
- Grind corner welds from step 2 on rim to allow hoops to sit flat.
- Pull required hoops from stock - standard, attachment, handle.
 - If hoops are not in stock see detailed procedure sheet for specific hoop fabrication.
 - Ensure vent hole is located at centre of tube to vent spine tubes.
- Assemble hoops with attachment lug locating jig and hoop spacing jig.
 - Ensure correct order and orientation of hoops. Refer to drawing.
 - Attachment lugs are on inboard side.
 - Handle bracket bushings are on outboard side, second hoop from both ends. May be on attachment hoops.
 - Run 3/8-24 tap into attachment lugs to ensure clear threads.
 - Bolt attachment lug locating jig to attachment hoops with 3/8-24 bolts.
 - Attach inboard and outboard hoop spacing jigs to all hoops using 1" C-clamps. Raise jigs approximately 2" off table to allow room to weld around hoops.
 - Attach bottom (spine) jig to all hoops using 1" C-clamps along the centre line of the basket. Ensure jig is straight prior to tightening all clamps.
- Cut $\frac{1}{2}$ " x 0.035 material to fit spine jig.
- Cut $\frac{1}{2}$ " x 0.035 material for strut to fit from lower inboard attachment to upper outboard rim.
 - Refer to applicable drawing for position, not required on some baskets.
- Option: Cut $\frac{1}{2}$ " x 0.035 material for front end cutout. Record material PO on attached material list.
- 90611 (R44) only: Cut $\frac{1}{2}$ " x 0.035 material to fit front end structure. Record material PO on attached material list.
- Drill vent holes into attachment hoop and/or rim to vent strut(s) and front end cutout.

CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

- j. Record hoop WOs and material POs on attached material list.
- k. Remove writing on tubes with acetone and scotch bright.
- l. Insert rim assembly into jig and set frame assembly onto rim. Ensure correct orientation of lid prop bushings in rim to frame. Bushing hole must be closer to attachment side.
- m. Align hoops to rim in accordance with drawing. General positions:
 - i. Extra large baskets
 - 1. inboard side of hoops (attachment side) aligns to OUTSIDE of rim
 - 2. outboard side of hoops (handle side) aligns to INSIDE of rim
 - 3. forward and aft hoops align to INSIDE of rim
 - ii. All other baskets
 - 1. inboard side of hoops (attachment side) aligns to INSIDE of rim
 - 2. outboard side of hoops (handle side) aligns to INSIDE of rim
 - 3. forward and aft hoops align to INSIDE of rim, except R44

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5. TIG weld frame to rim assembly.

- a. Ensure lug locating jig and hoop locating jigs are in place. Jigs must remain in place for as long as practical during welding.
- b. Strut tubes and front end cutout (see step 4.f. and g.) must be welded in place after the hoops are welded to the rim. Jig(s) must be in place prior to welding strut tubes.
- c. Robinson R44 (90611) requires fitting and welding of forward end after remainder of basket frame is welded. Use jig to support front hoop.
- d. Record welding rod PO on attached material list.

AD	AD
73-04	73-04
05	05

6. Inspection

- a. Frame assembly for complete welds.

7. Mesh assembly.

- a. Pull sheet of expanded mesh from stock. Record material PO on attached material list.
- b. Cut mesh to size for body.
- c. Remove surface rust with scotch-brite.
- d. Bend body mesh – use table with bend markings on top. Lock wheels on table.
 - i. For extra wide baskets only –
 - 1. Set $\frac{3}{4}$ " angle along edge of table under mesh sheet. Set 1.5" square tube on top of mesh aligned with angle on edge of table. Clamp in place with 6" C-clamps.
 - 2. Bend upper edge of sheet just past a cell intersection to make a flange 2.5" - 3.25" wide. Closer to 2.5" is preferred, full cell intersection on flange side at bend is required.
 - 3. Bend down by hand as far as possible, then use a hammer to flatten the bend tight against the angle on the edge of the table.
 - ii. Using markings on table, align sheet to indicated edge.
 - iii. Using markings on table, align 3" tube to required position and clamp tube in place.
 - iv. Bend mesh by hand tightly over tube along length of tube.
 - v. Keeping mesh in place, un-clamp 3" tube, move to other position and clamp tube in place.
 - vi. Bend mesh by hand tightly over tube along length of tube.
- e. Install attachment lug jig onto basket frame.

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CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

- f. Ensure end struts are welded in basket frame if required by the drawing.
- g. Insert mesh into basket.
 - i. General
 - 1. Some cells may interfere with correct positioning, especially at the upper corners and around struts. Bend cell(s) in as required, do not cut cells off.
 - 2. Ideally welds will be located on mesh intersections. Shift mesh if possible to minimize welds located off mesh intersections.
 - 3. Ensure mesh reaches all edges of basket BEFORE trimming. Regardless of progress in clamping, remove clamps and shift mesh if required.
 - 4. Ensure cleco clamps are placed from the inside of the basket to allow removal during welding. Cleco clamps may be used from the outside during fitting, but must be removed prior to welding.
 - ii. Extra large baskets only – seat corner of mesh with flange into inboard upper corner of frame. Use C-clamps on edge of flange as required to maintain tight fit.
 - iii. Starting at inboard top edge of basket, clamp mesh to hoop near top rim using cleco clamps onto hoops. For regular size baskets, edge of mesh should sit approximately half way up rim tube.
 - iv. Working down the inboard side, clamp mesh to hoops with cleco clamps. Clamp down into radius of hoop and continue clamping as required to maintain tight fit in corner of hoop. After the corners are tight, two clamps just onto the radius on both ends should be sufficient to hold the corner tight, remove all extra clamps.
 - v. Clamp mesh to spine in at least 1 place per section.
 - vi. Working up the outboard side, clamp the mesh into the radius of hoop and continue clamping as required to maintain tight fit in corner of hoop. After the corners are tight, 2 clamps just onto the radius on both ends should be sufficient to hold the corner tight, remove all extra clamps.
 - vii. Trim upper outboard edge of mesh if required, edge of mesh must be low enough on rim tube to prevent the weld from protruding above the edge of the rim. Some sheets are tapered and may require ½ to 1 cell to be removed over some or all of the length of the basket. De-burr cut edges with a sanding disc on a die-grinder. Straighten cut cells with duck-bill pliers. Clamp mesh near upper edge to hoops with cleco clamps after trimming.
 - viii. Trim ends to land on hoops, at mesh intersections if possible.
- h. Cut mesh to fit ends. Record material PO on attached material list.
 - i. Remove surface rust with scotch-brite.
 - ii. Ensure mesh is cut at intersections where possible.
 - iii. Bend top edge of mesh 1/8"-3/16" down at 45 degrees
 - iv. Cut for front end cutout if required.
- i. 90611 (R44) only: Cut mesh to fit upper forward end. Record material PO on attached material list.
 - i. Remove surface rust with scotch-brite.
 - ii. Ensure mesh is cut at intersections where possible.
 - iii. Bend top edge of mesh 1/4" down at 60 degrees.
 - iv. Fit mesh to front end of basket.

CARGO BASKET BODY FABRICATION - COMMON

8. Weld mesh to frame assembly per drawing.

- a. Ensure lug locating jig is in place prior to welding.
- b. General welding requirements for all baskets, MIG welding:
 - i. Every intersection at top edges.
 - ii. Every intersection at ends.
 - iii. First 5 intersections down on hoops, then every second intersection.
 - iv. Every intersection along spine.
 - v. Extra large baskets – every intersection along corner.
 - vi. Every intersection around ends
 - vii. Every intersection along struts (if applicable)
- c. Bend and trim cells bent in to fit mesh as required and weld in position.
- d. Grind high spots off body mesh welds on ends before welding end mesh.
- e. 90611 (R44) only – weld lid prop bushing (step 9) into rim BEFORE welding upper mesh on forward end of basket assembly.
- f. Record welding rod PO on attached material list.

9. Weld basket components

- a. TIG weld lid prop bushing(s), one or two per drawing.
 - i. Record welding rod PO on attached material list.
 - ii. Record lip prop bushing WO on attached material list.
- b. TIG weld caps to close top of 1" hoops as applicable.
- c. 94611 (Bell206L/407 XL ski) only: cut rim over cross tube gap.
 - i. Cut inboard rim on aft end. Grind flush with hoops.
 - ii. TIG weld caps on open tubes.
 - iii. Record cap material PO on attached material list.
- d. 95911 (Bell 429) only: placard bracket to forward upper corner of basket.
 - i. Record welding rod PO on attached material list.
 - ii. Record placard bracket WO on attached material list.

10. Clean up

- a. Grind high spots off mesh welds.
- b. Tighten mesh using special pliers. Tighten enough to remove "oil canning", where mesh springs in or out. Do not tighten in corners of hoops, mesh will be deformed.
- c. ~~Drill #9 through lid prop bushing(s). De-burr hole(s).~~
- d. Remove surface rust with scotch-brite pad.

11. Final Inspection

To be completed by a different person than the previous steps.

- a. Basket body assembly for complete welds, and required minimum mesh weld locations.
- b. Filled vent holes – usually on hoops
- c. Overall condition and conformity to drawing(s).
 - i. Hoops for height.
 - ii. Rim for width and length and alignment.
 - iii. Lid prop lugs in correct ends.
 - iv. Fore/aft strut in hoop if required by drawing.
- d. Material lists complete.

CARGO BASKET BODY FABRICATION - COMMON

Complete
(initial or SCA #)

- e. Tag complete basket body assembly in preparation for powder coating.

12. Powder Coating

- a. Parts are to be powder coated white in accordance with commercial practices.
- b. Record powder coating PO.
- c. Inspect powder coating on receiving.
- d. Tag basket body assembly and place into stock in preparation for assembly.

AD
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02

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Work Order: 2017-163

Material Tracking Sheet

1 of 2

Bell 206L / 407

Date Opened: Oct 2017

HIGH Basket Fabrication

Ass'y Step	Qty	Detail Drawing	Part Number	Description	Material	PO/WO
	<u>7</u>		76611-01	Basket Assembly		
Step 1				<i>Rim Assembly</i>		
	. 2		--	3/4" Tube - Long Rim (93.25")	4130 Steel, 3/4" x 0.035 Sqr. Tube	<u>17055</u>
	. 2		--	3/4" Tube - Short Rim (22.5")	4130 Steel, 3/4" x 0.035 Sqr. Tube	<u>17055</u>
Step 2				<i>Weld Rim Assembly</i>		
	. A/R		--	Welding Rod	ER70S-2 TIG Rod	<u>16078</u>
Step 3				<i>Inspection - Rim</i>	None	
Step 4				<i>Frame Assembly</i>		
	. 4		76623-01	Hoop - standard	4130 Steel, 1/2" x 0.035 Sqr. Tube	<u>See hoop sheets</u>
	. 1		76621-01	Forward Attachment Hoop		<u>See hoop sheets</u>
	. 1		76622-01	Aft Attachment hoop		<u>See hoop sheets</u>
	. 4		--	1/2" Tube - spine	4130 Steel, 1/2" x 0.035 Sqr. Tube	<u>17082</u>
Step 5				<i>Weld Frame Assembly</i>		
	. A/R		--	Welding Rod	ER70S-2 TIG Rod	<u>16078</u>
Step 6				<i>Inspection - Frame Assembly</i>	None	
Step 7				<i>Mesh Assembly</i>		
	. 1		--	Mesh (Body - 56" x 96")	3/4-16F Expanded Mild Steel sheet	<u>16009</u>
	. 2		--	Mesh (End - 22" x 19")	3/4-16F Expanded Mild Steel sheet	<u>17025</u>
Step 8				<i>Weld Mesh</i>		
	. A/R		--	Welding Rod	ER70S-6 MIG Wire	<u>16078</u>
Step 9				<i>Weld Basket Components</i>		
	. 1		49215-01	Spacer (Lid prop)	304 Stainless Steel, 1/2" Dia.	<u>2015-84</u>
	. A/R		--	Welding Rod	ER308L TIG Rod	<u>17066</u>

Work Order: 2017-163

Date Opened: Oct 2017

Material Tracking Sheet
Bell 206L / 407
HIGH Basket Fabrication

2 of 2

Ass'y Step	Qty	Detail Drawing	Part Number	Description	Material	PO/WO
Step 10				Clean Up	None	
Step 11				Inspection - Final Assembly	None	
Step 12				Powder Coating		17105 / 17110 (6) (1)

407 Hig³

01 Nov
2017

SLOT SAW

200 RPM

X0 @ end of cut - E

Y0 @ face of tube $\phi 4.0 \times 1/2"$

slot saw


move in to +0.200 in Y @ X 0.5

Feed across to ~~0.000~~ X 0.0 @ 1.28

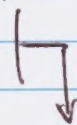
retract

Some drag on Y on entrance

Lock Y while moving X

1st  then

- Center punch @ center, 2" down from cut
- drill $\phi 1/4$ center drill
- drill $\phi 1/2$ center drill


on drill press
open belt cover,
hoop just fits over pulley